(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 30 June 2005 (30.06.2005)

(10) International Publication Number WO 2005/060132 A1

(51) International Patent Classification⁷:

H04B 17/00

(21) International Application Number:

PCT/KR2004/003344

(22) International Filing Date:

17 December 2004 (17.12.2004)

(25) Filing Language:

Korean

(26) Publication Language:

English

(30) Priority Data: 10-2003-0093283

> 18 December 2003 (18.12.2003) KR

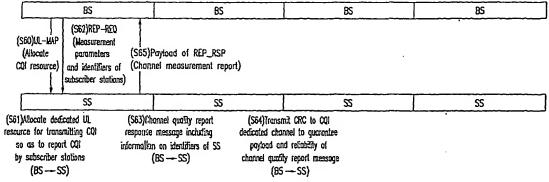
10-2004-0082661 15 October 2004 (15.10.2004)

(71) Applicants (for all designated States except US): Electronics and Telecommunications Research Institute [KR/KR]; 161, Gajeong-dong, Yuseong-gu, Daejeon, 305-350 (KR). SAMSUNG ELECTRONICS CO., LTD. [KR/KR]; 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, 442-742 (KR). KT Corporation [KR/KR]; 206, Jungja-dong, Bundang-gu, Seongnam-city, Kyeongki-do, 463-711 (KR). SK Telecom Co., Ltd. [KR/KR]; 99, Seorin-dong, Jongro-gu, Seoul, 110-110 (KR). KTFREETEL CO., LTD. [KR/KR]; 890-20, Daechi-dong, Gangnam-gu, Seoul, 135-280 (KR). HA-NARO TELECOM, INC. [KR/KR]; Shindongah Fire & Marine Insurance Building 43, Taepyeongno 2-ga, Jung-gu, Seoul, 100-733 (KR).

- (72) Inventors; and
- (75) Inventors/Applicants (for US only): YOON, Chul-Sik [KR/KR]; Daewoo Topia Apt. 1208, Dunsan-dong, Seo-gu, Daejeon-city, 302-120 (KR). KIM, Jae-Heung [KR/KR]; Sejong Apt. 106-807, Jeonmin-dong, Yuseong-gu, Daejeon-city, 305-390 (KR). YEO, Kun-Min [KR/KR]; Daelim-doorei Apt. Sinsung-dong, Yuseong-gu, Daejeon-city, 305-720 (KR). LIM, Soon-Yong [KR/KR]; Hanbit Apt. 117-1101, Eoeun-dong, Yuseong-gu, Daejeon-city, 305-755 (KR). RYU, Byung-Han [KR/KR]; Hanvit Apt. 118-604, Eoeun-dong, Yuseong-gu, Daejeon-city, 305-755 (KR).
- (74) Agent: YOU ME PATENT AND LAW FIRM; Seolim Bldg., 649-10, Yoksam-dong, Kangnam-ku, Seoul 135-080 (KR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR REQUESTING AND REPORTING CHANNEL QUALITY INFORMATION IN MOBILE COMMUNICATION SYSTEM



(57) Abstract: Disclosed is a method and device for requesting and reporting channel quality information in a mobile communication system. A base station a locates a dedicated feedback channel for channel quality information report to an uplink radio resource, transmits the allocation information to subscriber stations, and generates a CQI report message to request channel quality information from the subscriber stations. The subscriber stations receive the CQI report message from the base station, measures a radio channel quality for communication with the base station, generates channel quality information, generates a CQI response message including the channel quality information, and transmit- the CQI response message to the base station through a dedicates feedback channel designated in the allocation information.



WO 2005/060132 A1



FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

with international search report